VH

				CDR1	40	
HuAIP12	EVQLVQSGAE	VKKPGATVKI	SCKVSGYTFT	DYSMHWVRQA		SEQ ID NO. 45
HuAIP13	EVQLVQSGAE	VKKPGATVKI	SCKVSGYTFT	DYSMHWVRQA		SEQ ID NO. 13
T55I	EVQLVQSGAE	VKKPGATVKI	SCKVSGYTFT	DYSMHWVRQA		SEQ ID NO. 78
G104A	EVQLVQSGAE	VKKPGATVKI	SCKVSGYTFT	DYSMHWVRQA		SEQ ID NO. 79

		CDR2		80
HuAIP12	PGKGLKWMGW	INTETGEPTY	ADDFKGRFTF	TLDTSTSTAY
HuAIP13	PGKGLKWMGW	INTEIGEPTY	ADDFKGRFTF	TLDTSTSTAY
T55I	PGKGLKWMGW	INTEIGEPTY	ADDFKGRFTF	TLDTSTSTAY
G104A	PGKGLKWMGW	INTETGEPTY	ADDFKGRFTF	TLDTSTSTAY

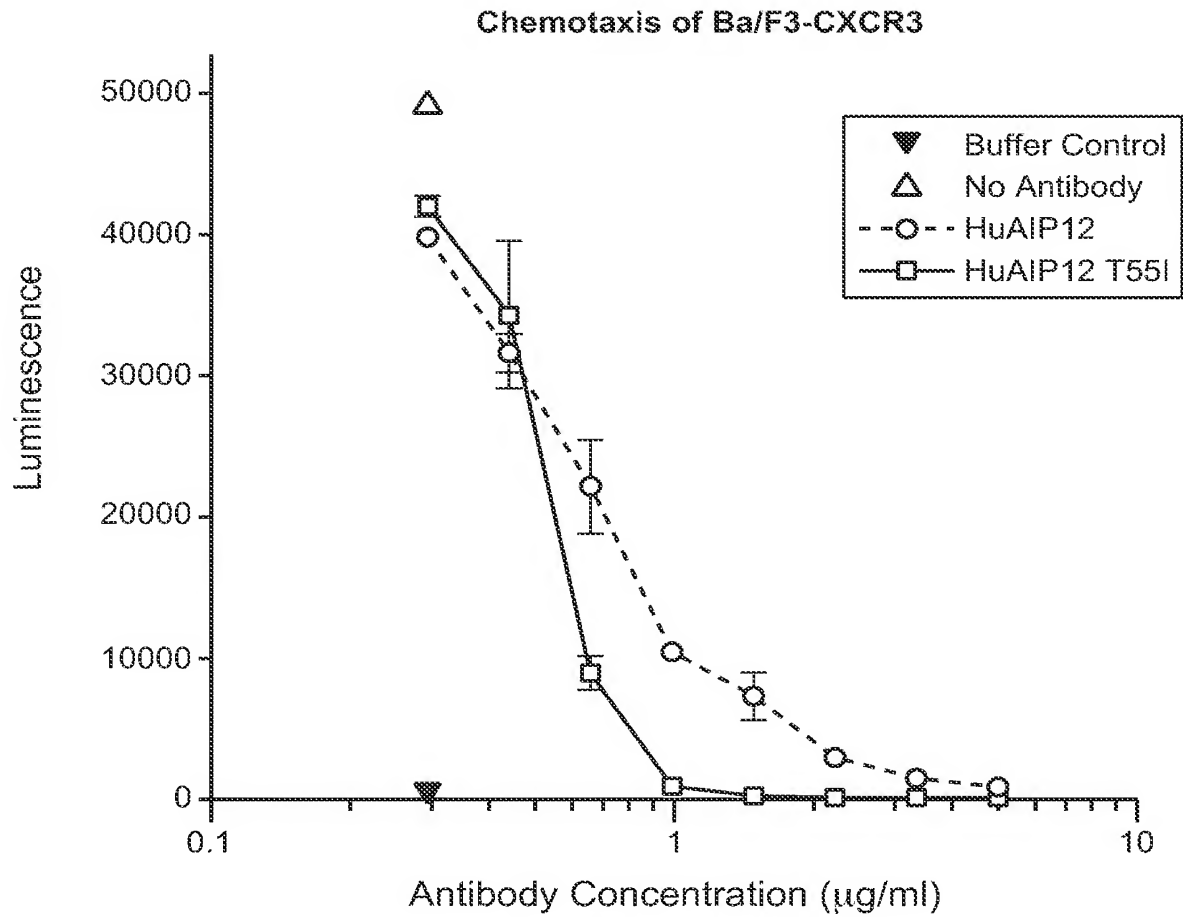|		CDR3		119
HuAIP12	MELSSLRSED	TAVYYCARNY	DYDGYFDVWG	QGTTVTVSS
HuAIP13	MELSSLRSED	TAVYYCARNY	DYDAYFDVWG	QGTTVTVSS
T55I	MELSSLRSED	TAVYYCARNY	DYDGYFDVWG	QGTTVTVSS
G104A	MELSSLRSED	TAVYYCARNY	DYDAYFDVWG	QGTTVTVSS

Alignment of the VH (A) and VL (B) amino acid sequences of HuAIP12, its derivatives (in A), and HuAIP13. The amino acid sequences of the mature VH and VL regions are shown in single letter code. Amino acids that differ from the counterparts in the HuAIP12 VH or VL are bold and double-underlined.

FIGURE 1A

VL

				CDR1	40	
HuAIP12	DIQMTQSPSS	LSASVGDRVT	ITCKASQDIN	KYIAWYQQKP		SEQ ID NO. 46
HuAIP13	DIQMTQSPSS	LSASVGDRVT	ITCKADQDIN	KYIAWYQQKP		SEQ ID NO. 15

		CDR2		80
HuAIP12	GKAPKLLIHY	TSTLQPGIPS	RFSGSGSGRD	YTFTISSLQP
HuAIP13	GKAPKLLLHH	TSTLQPGIPS	RFSGSGSGRD	YTFTISSLQP

	CDR3		107
HuAIP12	EDIATYYCLQ	YDNLLFTFGQ	GTKLEIK
HuAIP13	EDIATYYCLQ	YDSLLFTFGQ	GTKLEIK

Alignment of the VH (A) and VL (B) amino acid sequences of HuAIP12, its derivatives (in A), and HuAIP13. The amino acid sequences of the mature VH and VL regions are shown in single letter code. Amino acids that differ from the counterparts in the HuAIP12 VH or VL are bold and double-underlined.

FIGURE 1B

FIGURE 2